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10/613,252	07/03/2003	Jim Hranica	HON-14853	4902
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	LL, PORTER & CLAR	CABRERA, ZOILA E		
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			2125	

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 11 - 4/)				
	Application No.	Applicant(s)				
Office Action Summary	10/613,252	HRANICA ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Zoila E. Cabrera	2125				
Period for Reply	sears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>03 Ju</u>	uly 2003.					
2a) This action is FINAL . 2b) ⊠ This						
3) Since this application is in condition for alloward	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-31 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-5,9-15,18-22,25-28 and 31 is/are reformed is/are object to restriction and/o 8) Claim(s) are subject to restriction and/o 	wn from consideration. ejected. ected to.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the liderawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/14/03.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 11 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Kusmierczyk et al. (US 6,502,294 B2).

Regarding claims 1, 11 and 13 Kusmierczyk discloses:

1. A method of inspecting a selected workpiece during a production run in which workpieces are supplied to a plurality of workstations, said method comprising the steps of: (a.) performing a control routine that controls the movement of the workpieces to and from the workstations, said control routine operating in a series of cycles (Col. 4, lines 20-30; Col. 3, lines 65-67; Col. 5, lines 51-55); (b.) generating a signal requesting the selected workpiece from a selected one of the workstations (Col. 4, lines 34-44; Col. 5, lines 35-38); (c.) in response to the signal, interrupting the performance of the control routine at the end of the then current cycle and moving the selected workpiece from the selected one of the workstations to a quality control station (Col. 5, lines 38-67); (d.) resuming the performance of the control routine (Col. 5, lines 67- Col. 6, line 3); (e.) inspecting the selected workpiece after step (d) (Col. 6, lines 23-25); (f.) determining

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whether the selected workpiece is acceptable; (g.) if the selected workpiece is acceptable, generating a second signal indicating that the selected workpiece is ready to be transported to an output area (Col. 6, lines 27-31, it is inherent that the workpiece would be acceptable in order to continue machining the workpiece); and (h.) in response to the second signal, interrupting the control routine at the end of the then current cycle and moving the selected workpiece from the quality control station to the output area (Col. 6, lines 27-31, output area corresponds to the entry end).

- 11. The method of claim 1, wherein the control routine is performed by a programmable logic controller (Col. 3, lines 46-59).
- 13. The method of claim 1, wherein the control routine is predetermined (Col. 4, lines 1-7).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-5, 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kusmierczyk et al. (US 6,502,294 B2) in view of Katsuura et al. (US. 6,324,749).

Kusmierczyk discloses the limitations of claim 1 and further discloses the limitations of claim 3-5 as follows:

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3. The method of claim 2, wherein the desired one of the workstations is the selected one of the workstations (Col. 6, lines 42-51).

- 4. The method of claim 2, further comprising the step of: (k.) informing the control routine that workpieces should not be delivered to the selected one of the workstations; and wherein step (k.) is performed between steps (c.) and (d.) (Col. 3, lines 31-36).
- 5. The method of claim 4, wherein step (k.) is performed by placing the selected one of the workstations in a bypass mode (Col. 3, lines 31-36).

However, Katsuura fails to disclose the limitations of claims 2 and 9-10. However, Katsuura discloses such limitations as follows:

- 2. The method of claim 1, further comprising the steps of: (i.) if the selected workpiece is not acceptable, generating a third signal indicating that the selected workpiece is ready to be transported to a desired one of the workstations; and (j.) in response to the third signal, interrupting the control routine at the end of the then current cycle and moving the selected workpiece from the quality control station to said desired one of the workstations (Fig. 1, From Inspection Station to Repair Station).
- 9. The method of claim 1, wherein step (e) is performed on a stand alone jig, outside the

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quality control station (Fig. 3, Inspection Stations; Inspection Method Gauge).

10. The method of claim 1, wherein the workpieces are automotive crankshafts (Fig. 1, Interior equipment Zone; Col. 3, lines 42-46).

Therefore, it would have been obvious to a person of the ordinary skill in the art at the time the invention was made to combine the transfer line workpiece of Kusmierczyk with the vehicle assembly line of Katsuura because it would provide an improved automotive assembly line which can promptly identify an improper assembly (Katsuura, Col. 1, line 66- Col. 2, line 3).

3. Claims 12, 14, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kusmierczyk et al. (US 6,502,294 B2) in view of McCulloch (US 5,193,662)

Regarding claims 12, 14, and 21, Kusmierczyk discloses the limitations of claim 1 above. The same citations applied to claim 1 above apply as well for claim 21.

Kusmierczyk further discloses most of the limitations of claim 14 as follows:

14. A method of inspecting a first workpiece during a production run in which workpieces are supplied to a plurality of workstations, said method comprising: (a.) moving the first workpiece from an input area to a first workstation using the autoloader (Col. 3, lines 24-30); (b.) moving the first workpiece from the first workstation to a quality

control station using the autoloader (Col. 5, lines 38-67); (c.) inspecting the first workpiece after step (b.) (Col. 5, lines 63-67); (d.) after step (b.), moving a second workpiece from the input area to a second workstation using the autoloader (Col. 4, lines 44-48); (e.) determining whether the first workpiece is acceptable; and (f.) if the first workpiece is acceptable, moving the first workpiece from the quality control station to an output area using the autoloader (Col. 6, lines 27-51).

However, Kusmierczyk fails to specifically disclose an autoloader comprising a carriage movably mounted to a guidance structure. But McCulloch discloses a guide structure for lift and carry conveyors or autoloader (Abstract). Therefore, it would have been obvious to a person of the ordinary skill in the art at the time the invention was made to combine the teachings of Kusmierczyk with the system of McCulloch because it would provide an improvement in guide structure for lift and carry conveyor systems (Col. 1, lines 6-7).

4. Claims 15, 18-20, 22, 25-28 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kusmierczyk and McCulloch as applied to claims 14 and 21 above and further in view of Katsuura et al. (US. 6,324,749).

Regarding claims 15, 18-20, 22, 25-28 and 31, Kusmierczyk and McCulloch disclose the limitations of claims 14 and 21 above but fail to disclose the limitations of

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claims 15, 18-20, 22, 25-28 and 31,. However, Katsuura discloses such limitations as follows:

- 15. The method of claim 14, further comprising the step of: (g.) if the first workpiece is not acceptable, moving the first workpiece from the quality control station to a third workstation using the autoloader (Fig. 1, From Inspection Station to Repair Station).
- 18. The method of claim 14, wherein step (c) is performed on a stand alone jig, outside the quality control station (Fig. 3, Inspection Stations; Inspection Method Gauge).
- 19. The method of claim 14, wherein the workpieces are automotive crankshafts (Fig. 1, Interior equipment Zone; Col. 3, lines 42-46).
- 20. The method of claim 14, wherein the workstations all perform the same type of operation (Fig. 1, each zone includes machines that perform same type of operation).
- 22. The method of claim 21, further comprising the step of: (g.) if the selected workpiece is not acceptable, interrupting the control of the supply of workpieces in accordance with the control routine at the end of the then current cycle and moving the selected workpiece from the quality control station to another one of the workstations using the autoloader (Fig. 1, From Inspection Station to Repair Station).

25. The method of claim 21, wherein the workpieces are automotive crankshafts (Fig. 1, Interior equipment Zone; Col. 3, lines 42-46).

As for claims 26-28, and 31 the same citations applied to claims 1-2, 14, 19, 21, above apply as well for claims 26-28 and 31. Please note that Katsuura discloses different zones wherein an autoloader would be transferring workpieces from zone to zone (Fig. 1).

Therefore, it would have been obvious to a person of the ordinary skill in the art at the time the invention was made to combine the teachings of Kusmierczyk and McCulloch with the assembly line of Katsuura because it would provide an improved automotive assembly line which can promptly identify an improper assembly (Katsuura, Col. 1, line 66- Col. 2, line 3).

Allowable Subject Matter

5. Claims 6-8, 16-17, 23-24, and 29-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning communication or earlier communication from the examiner should be directed to Zoila Cabrera, whose telephone number is (571) 272-

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3738. The examiner can normally be reached on M-F from 8:00 a.m. to 5:30 p.m. EST (every other Friday).

If attempts to reach the examiner by phone fail, the examiner's supervisor, Leo Picard, can be reached on (571) 272-3749. Additionally, the fax phones for Art Unit 2125 are (703) 872-9306. Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist at (703) 305-9600.

Zoila Cabrera Patent Examiner

9/30/05